

SECRET

18 March 1964

MEMORANDUM FOR: Chief, Development Branch *DM*

SUBJECT : Report of Trip, 2 - 6 March 1964

1. On 2 March, in company with [redacted] [redacted] I visited the [redacted] [redacted]. We met [redacted] who briefed us on an automatic photo reading project, also described in the July 1963 edition of "Photogrammetric Engineering". Major Dubes was given a copy of the Philco Publication No. U-2270, "Image Computer Systems Analysis and Timing", which describes the simulations and analysis of a type of image processing system called a Natural Image Computer.

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I brought up the problem of automatic stereo registration since our discussion indicated that they have a capability along this line. As a consequence, it was decided that Security Form 1841 would be left to be submitted by [redacted]

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2. On 3 March, I accompanied [redacted] [redacted] in an effort to determine its capabilities in the field of automatic photo interpretation. We contacted [redacted] and learned that the Center at Anaheim was engaged only in acoustical research. However, [redacted] and learned that he had been responsible for the OSIRIS project sponsored by ONR. We also learned that ONR was no longer interested in sponsoring further work. ONR has the LTV report on OSIRIS and [redacted] indicated that he would follow up and obtain a copy for our information. If we pursue this item with LTV, the contact in Dallas is [redacted] Vice President of Engineering. [redacted] should be notified if we plan to contact [redacted]

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3. On 4 March, I was at [redacted] for the main purpose of inspecting the Multi-Format Photo Interpretation Station. [redacted] from SAC were also there for the same purpose. An evaluation of the instrument will be prepared for Mr. Lundahl.

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4. On 5 March, I accompanied [redacted] [redacted] and became acquainted with the cover set-up and the procedure of contact. We had been scheduled to visit [redacted] but due to a security mixup, this visit was cancelled.

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GROUP 1  
Excluded from automatic  
downgrading and  
declassification

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5. On the same day, we visited the [redacted] [redacted] introduced us to [redacted] the two persons most responsible for the [redacted] project on Automatic Image Registration. The instrument had been partially disassembled and the X parallax control was not operating. However, Y parallax corrections were accomplished in an acceptable manner. The image was much better than I had anticipated. Part of this was probably due to the use of a crossed diagonal scan instead of the conventional horizontal scan. The lines are not as noticeable on the diagonal scan.

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Magnification ranged from 16 to 1 and the instrument was capable of automatically matching scale for stereo registration at a ratio of 2 to 1. The transport system is air supported on the glass surface of a table and air is supplied to the underside of circular pads by a small compressor producing approximately  $\frac{1}{2}$  pound pressure. An operator energizes the transport by grasping the handle in a manner so as to close a small exhaust port, thus diverting the air to the pads. This raises the pads above the glass surface and permits the transport to move freely. When the handle is released, the transport drops onto the glass surface.

When queried, [redacted] stated that he plans to work with oblique and panoramic photography. The requirement for 90° image rotation was discussed and [redacted] appeared to understand the diverse formats which the instrument should be able to handle.

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This instrument is on display this week at the ACSM-ASP Convention at the Shoreham Hotel. [redacted] will be demonstrating the Viewer but neither one is witting of our Agency association.

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6. On 6 March, I accompanied [redacted] to inspect the film reader. [redacted] has described the details of this visit in his trip report. In addition to inspecting the reader, I discussed the problem of automatic stereo registration with [redacted]. Although he thought a project of this type would be interesting, I don't believe he understands. He told me that he had no experience with stereo problems.

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[redacted]  
Development Branch, P&DS

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